

Edgetek™ X4 ET3500-5004 White1

Acrylonitrile Styrene Acrylate + PC

PolyOne Corporation

Message:

Edgetek®The engineering thermoplastic polymer product portfolio includes a series of standard and customizable high-performance materials. The combination includes high-temperature resistant materials for high-temperature working environments, and high-modulus/structural materials for load-bearing, high-strength applications and flame-retardant products. These polymers are made by mixing engineering thermoplastic resins with different reinforcing additives, such as carbon fiber, glass fiber and glass beads.

General Information			
Features	Good dimensional stability Light stabilization Good weather resistance Low shrinkage		
Appearance	White		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.21	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	10 - 15	g/10 min	ISO 1133
Molding Shrinkage			ASTM D955
Flow	< 0.50	%	ASTM D955
Transverse flow	< 0.50	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2430	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	54.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	5.2	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	45	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	119	°C	ISO 75-2/B
1.8 MPa, not annealed	102	°C	ISO 75-2/A
Vicat Softening Temperature			
--	128	°C	ISO 306/A
--	116	°C	ISO 306/B
Additional Information			
high light reflection, very good opacity			
Injection	Nominal Value	Unit	

Drying Temperature	80.0 - 90.0	°C
Drying Time	2.0 - 4.0	hr

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